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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/500,696	07/01/2004	Yoon-Won Kim	7037-69151-01	3101	
	24197 7590 08/13/2008 KLARQUIST SPARKMAN, LLP			EXAMINER	
121 SW SALMON STREET			BLUMEL, BENJAMIN P		
SUITE 1600 PORTLAND, OR 97204			ART UNIT	PAPER NUMBER	
·			1648		
			MAIL DATE	DELIVERY MODE	
			08/13/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/500,696	KIM ET AL.
Office Action Summary	Examiner	Art Unit
	BENJAMIN P. BLUMEL	1648
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tilt d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 13 2a) ☐ This action is FINAL . 2b) ☐ Th 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-14 is/are pending in the application 4a) Of the above claim(s) 4-9,11 and 12 is/are 5) ☐ Claim(s) 1,2 and 13 is/are allowed. 6) ☐ Claim(s) 10 and 14 is/are rejected. 7) ☐ Claim(s) 3 is/are objected to. 8) ☐ Claim(s) are subject to restriction and application Papers 9) ☐ The specification is objected to by the Examination The drawing(s) filed are 01 to the 2004 is larger.	e withdrawn from consideration. /or election requirement. ner.	by the Eversiner
10) ☐ The drawing(s) filed on 01 July 2004 is/are: a Applicant may not request that any objection to th Replacement drawing sheet(s) including the corre 11) ☐ The oath or declaration is objected to by the B	e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list 	nts have been received. nts have been received in Applicat iority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

Applicants are informed that the rejections of the previous Office action not stated below have been withdrawn from consideration in view of the Applicant's arguments and/or amendments.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 13, 2008 has been entered.

Claims 1-3, 10, 13 and 14 are examined on the merits. Claims 13 and 14 are new claims.

Election/Restrictions

This application contains claims 4-9, 11 and 12 drawn to an invention nonelected with traverse in the reply filed on February 13, 2007.

Claim Rejections - 35 USC § 112

(**Prior Rejection Maintained**) Claim 10 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for treatment of EMC-DV induced diabetes development in mice, does not reasonably provide enablement for preventing and/or treating all viral infections claimed. The specification does not enable any person skilled in the art to which

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it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims.

Applicants amended the preamble of claim 10, thus deleting "...prevention...", however the claim still recites, "...preventively..." in line 2 of claim 10. Therefore, the rejection is maintained for reasons of record.

(New Rejection) Claim 14 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The claimed invention is drawn to the VSF protein of claim 1 that is produced by hybridoma 4D 1B (accession number KCLRF-BP-00052). However, the requirements according to 37 CFR 1.803 have not been met.

It is apparent that the hybridoma is required to practice the claimed invention because they are a necessary limitation for the success of the invention as stated in the claims. As a required element it must be known and readily available to the public or obtainable by a repeatable method set forth in the specification, or otherwise readily available to the public. If it is not so obtainable or available, the enablement requirements of 35 U.S.C. § 112, first paragraph, may be satisfied by a deposit of the claimed hybridoma. See 37 CFR 1.802. One cannot practice the claimed invention without this specific hybridoma that produces the VSF protein of claim 1. One cannot determine whether any hybridoma produces the claimed protein without access to the claimed hybridoma. Therefore, access to claimed hybridoma is required to practice the invention. The specification does not provide a repeatable method for producing the claimed VSF protein from any hybridoma without access to the claimed hybridoma and it does not appear to be readily available material.

Deposit of the claimed hybridoma in a recognized deposit facility would satisfy the enablement requirements of 35 U.S.C. 112., because the strains would be readily available to the public to practice the invention claimed, see 37 CFR 1.801- 37 CFR 1.809.

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If a deposit is made under the terms of the Budapest Treaty, then an affidavit or declaration by applicants or someone associated with the patent owner who is in a position to make such assurances, or a statement by an attorney of record over his or her signature, stating that the deposit has been made under the terms of the Budapest Treaty and that all restrictions imposed by the depositor on the availability to the public of the deposited material will be irrevocably removed upon the granting of a patent, would satisfy the deposit requirements. See 37 CFR 1.808.

If a deposit is not made under the terms of the Budapest Treaty, then an affidavit or declaration by applicants or someone associated with the patent owner who is in a position to make such assurances, or a statement by an attorney of record over his or her signature, stating that the deposit has been made at an acceptable depository and that the following criteria have been met:

(a) during the pendency of this application, access to the invention will be afforded to one determined by the Commissioner to be entitled thereto;

- (b) all restrictions imposed by the depositor on the availability to the public of the deposited material will be irrevocably removed upon granting of the patent;
- (c) the deposit will be maintained for a term of at least thirty (30) years and at least five (5) years after the most recent request for the furnishing of a sample of the deposited material;
- (d) a viability statement in accordance with the provisions of 37 CFR 1.807; and
- (e) the deposit will be replaced should it become necessary due to inviability, contamination or loss of capability to function in the manner described in the specification.

In addition the identifying information set forth in 37 CFR 1.809(d) should be added to the specification. See 37 CFR 1.803 - 37 CFR 1.809 for additional explanation of these requirements.

Claim Objections

Claim 3 is objected to because of the following informalities: the claim recites, "...the antiviral activity is to suppress proliferation or replication of a virus belonging to the genus *Orthomyxovirus*, *Picornavirus*, *Retrovirus*, or *Herpesvirus*...", however, upon further review of the taxonomy of viruses, the proper genus for the viruses discussed in the specification are *Cardiovirus*-(EMC-DV or Mengovirus), *Lentivirus*-(HIV, SIV and FIV), *Vesiculovirus*-(VSV), and *Influenzavirus A*, *Influenzavirus B*, or *Influenza C* (influenza viruses) or the family of *Orthomyxoviridae*-(influenza viruses). The examiner also suggests that applicants amend the specification in order to support these proposed amendments. Appropriate correction is required.

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Summary

Claims 1-3, 10, 13 and 14 are free of the prior art of record.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENJAMIN P. BLUMEL whose telephone number is (571)272-

4960. The examiner can normally be reached on M-F, 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bruce Campell can be reached on 571-272-1600. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Stacy B Chen/

Primary Examiner, Art Unit 1648

/BENJAMIN P BLUMEL/

Examiner

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